

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A biochemical analyzing method comprising the steps of
fixing probes selected in advance on a substrate;

binding a target with at least one of the probes using a specific binding reaction to capture
the target;

fractionating a combined bodies body of the probe, ~~and~~ the captured target and a
substance derived from a living organism other than the captured target which is bound with the
probe due to a similarity in structure;

detecting only a fractionated target; and

quantitatively analyzing the detected target, wherein the probes are spotted on the
substrate and fixed thereon, and the combined body bodies of the probe, ~~and~~ the captured
targets and the substance derived from a living organism other than the target is-are
electrophoresed, thereby being fractionated,

wherein during the fractionating, the combined body bodies of the probe and the captured
target and the substance derived from a living organism other than the target is separated into a
plurality of fractions based on molecular weight.

2. (currently amended): The biochemical analyzing method in accordance with Claim 1,
wherein the target is bound with the ~~probes~~ at least one probe using hybridization.

3. canceled.

4. (currently amended): The biochemical analyzing method in accordance with Claim 1, wherein the ~~respective captured targets are~~ combined body of the probe, the captured target and the substance derived from a living organism other than the target is electrophoresed in a direction at an angle with the surface of the substrate, thereby being fractionated.

5. (currently amended): The biochemical analyzing method in accordance with Claim 4, wherein the ~~respective captured targets are~~ combined body of the probe, the captured target and the substance derived from a living organism other than the target is electrophoresed in gel adjacent and in contact with ~~to~~ the substrate, thereby being fractionated.

6. (currently amended): The biochemical analyzing method in accordance with Claim 5, wherein the ~~respective captured targets are~~ combined body of the probe, the captured target and the substance derived from a living organism other than the target is electrophoresed in a block of gel adjacent to the substrate, thereby being fractionated.

7. (currently amended): The biochemical analyzing method in accordance with Claim 4, wherein the ~~respective captured targets are~~ combined body of the probe, the captured target and the substance derived from a living organism other than the target is electrophoresed in a plurality of capillaries adjacent to and in contact with the substrate, thereby being fractionated.

8. (previously presented): The biochemical analyzing method in accordance with Claim 7, wherein the plurality of capillaries are filled with a material capable of forming a membrane filter or a gel.

9. canceled.

10. (previously presented): The biochemical analyzing method in accordance with Claim 1, wherein the probes are one-dimensionally spotted on the substrate to form a plurality of spots and are fixed thereon.

11. (previously presented): The biochemical analyzing method in accordance with Claim 1, wherein the probes are two-dimensionally spotted on the substrate to form a plurality of spots and are fixed thereon.

12. (previously presented): The biochemical analyzing method in accordance with Claim 1, wherein the target consists of a gene.

13. (previously presented): The biochemical analyzing method in accordance with Claim 1 which further comprises a step of labeling the target with a fluorescent substance.

14. (previously presented): The biochemical analyzing method in accordance with Claim 13, wherein the target is labeled with the fluorescent substance prior to binding the target with the probes.

15. (currently amended): The biochemical analyzing method in accordance with Claim 13, wherein the combined body of the captured target, the probe and the substance derived from a living organism other than the target is labeled with the fluorescent substance after the respective combined body of the probe, the captured targets, and the substance derived from a living organism other than the target were is fractionated.

16. (previously presented): The biochemical analyzing method in accordance with Claim 1 which further comprises a step of labeling the target with a labeling substance which generates chemiluminescent emission when it contacts a chemiluminescent substrate.

17. (previously presented): The biochemical analyzing method in accordance with Claim 16, wherein the step of labeling occurs prior to said binding step.

18. (previously presented): The biochemical analyzing method in accordance with Claim 16, wherein the step of labeling occurs after the fractionating step.

19. (previously presented): The biochemical analyzing method in accordance with Claim 10, wherein the fractionated targets are two-dimensionally scanned and light released from the targets is detected, thereby performing quantitative analysis.

20. (previously presented): The biochemical analyzing method in accordance with Claim 10, wherein light released from the fractionated targets is detected using an area sensor and quantitative analysis is performed.

21. (previously presented): The biochemical analyzing method in accordance with Claim 11, wherein the fractionated targets are three-dimensionally scanned and light released from the targets is detected, thereby performing quantitative analysis.

22. (previously presented): The biochemical analyzing method in accordance with Claim 1, wherein targets electrophoresed to positions in accordance with the kinds of the targets are quantified and analyzed.

23.-41. canceled.